



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/706,546

11/12/2003

Feng-Wei Chen Russell

RSW920030186US1

6883

23550

7590

10/18/2006

HOFFMAN WARNICK & D'ALESSANDRO, LLC
75 STATE STREET
14TH FLOOR
ALBANY, NY 12207

EXAMINER

TIMBLIN, ROBERT M

ART UNIT

PAPER NUMBER

2167

DATE MAILED: 10/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/706,546

Applicant(s)

RUSSELL ET AL.

Examiner

Robert M. Timblin

Art Unit

2167

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
- Paper No(s)/Mail Date _____.

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

This office action corresponds to application 10/706,546 and applicant's remarks and amendments filed 8/3/2006.

Claims 1-31 remain pending in this application.

Response to Amendment

Claim Objections

Claims 1 and 7 are objected to because of the following informalities:

As per claim 7, line 1 of this claim reads "*the* matching resource." As claim 7 depends on claim 1, it is unclear *which* matching resource is referred to. Claim 1 reads in lines 5 and 6 "*an* external matching resource" and further in the last line "*a* matching resource." With the current phraseology, one matching resource or two different matching resources can be construed.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the



Art Unit: 2167

applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Gorelik et al. ('Gorelik' hereinafter) U.S. Patent Application 2005/0055369 A1.

With respect to claim 1, and similar claims 9, 16, and 24, Gorelik teaches a computer-implemented method for mapping a user data schema to a mining model schema, comprising:

matching columns of the user data schema to corresponding columns of the mining model schema ([0031, 0058, 0118]) to provide a mapping (abstract, [0015] and [0198] by performing a number of matching processing sequence until a match is found, ([0055] and 606 of figure 6) wherein at least one of the number of matching process does not utilize an external matching resource (metadata index; [0205]);

determining whether data within matching columns of the user data schema has a data type different than data within the corresponding columns of the mining model schema (binding; [0048] and correlation [0052];

transforming the data within the matching columns of the user data schema if the data type is determined to be different (transformation function ([0059], type conversion rules [0237], and transformation discovery [0048-0052]); and

updating a matching resource based on the mapping (updating the metadata index [0221]).

The schema consolidation table of claim 9 is taught by Gorelik as described in respect to claims 2, 17, and 25.

With respect to claims 2, 17, and 25, Gorelik teaches providing an opportunity to manually alter the mapping after transforming the data ([0159-0160]); and presenting a final view of the mapping after providing the opportunity, wherein the updating step is performed after the final view is presented (figures 7A-7B).

With respect to claims 3, 10, 18, and 26, Gorelik teaches determining whether names of the columns of the user data schema exactly match names of the columns of the mining model data schema (absolute match [0055]).

With respect to claims 4, 11, 19, and 27, Gorelik teaches determining whether the names of the columns of the user data schema are similar to the names of the columns of the mining model data schema based on the matching resource ([0198]-[0206]).

With respect to claims 5, 12, 20, and 28, Gorelik teaches determining whether the names of the columns of the user data schema match the names of the columns of the mining model schema based on one or more formulae (table 1 of page 9 and [0210] to at least [0220]).

With respect to claims 6, 13, 21, and 29, Gorelik teaches determining whether the data within the columns of the user data schema corresponds to the data within the columns of the mining model data schema (corresponding values [0052]-[0053]).

With respect to claims 7, 14, 22, 30, Gorelik teaches the matching resource is selected from the group consisting of a thesaurus, a dictionary and a similarity threshold (metadata index [0205] and CorrelationThreshold [0102]).

With respect to claims 8, 15, 23, and 31, Gorelik teaches populating a schema consolidation table with names of the columns of the mining model schema, prior to the matching step (Value Match Table [0094]-[0095]); and

updating the schema consolidation table with names of the matching columns of the user data schema, during the updating step (pseudocode after [0094]).

Claims 16-23 are essentially the same as claims 1-8 except that they set forth the claimed invention as a system rather than a method and are rejected for the same reason as applied hereinabove.

Claims 24-31 are essentially the same as claims 1-8 except that they set forth the claimed invention as a product stored on a computer readable medium rather than a method and are rejected for the same reason as applied hereinabove.

Response to Arguments

Applicant's arguments with respect to claims 1-31 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 6,785,689 B1 to Daniel et al. 8/31/2004.

U.S. Patent 5,797,137 to Golshani et al. on 8/18/1998.

U.S. Patent 6,151,608 to Abrams on 11/21/2000.

U.S. Patent Application 2004/0249867 A1 to Kraiss et al. on 12/9/2004.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 2167

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Timblin whose telephone number is 571-272-5627. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Leslie Wong


Primary Examiner

RMT
10/10/2006

Robert M. Timblin



Patent Examiner AU 2167



JOHN COTTINGHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100